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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,423	07/09/2004	Richard Heller	1372.32.UTLCPDV2	5054
21901 7590 SMITH HOPEN, I	• • • • • • • • • • • • • • • • • • • •	7	EXAM	IINER
180 PINE AVENU	ENUE NORTH HUH, BENJAMIN		NJAMIN	
OLDSMAR, FL 3	46//		ART UNIT PAPER NUMBER	
			3767	
SHORTENED STATUTORY PR	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTI	H6	03/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/710,423	HELLER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Benjamin Huh	3767	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE	EDLVIS SET TO EXPIRE 3 N	MONTH(S) OR THIRTY (30) DA	LYS
WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pr - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the r earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communi BANDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on 1	8 December 2006		
2a)⊠ This action is FINAL. 2b)□	This action is non-final.		
3) Since this application is in condition for all			its is
closed in accordance with the practice und	ier <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-12 is/are pending in the applica	tion.		•
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-12</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exar	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	rrection is required if the drawing	g(s) is objected to. See 37 CFR 1.1	l21(d).
11) The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docum	nents have been received.		
2. Certified copies of the priority docum	nents have been received in A	Application No	
3. Copies of the certified copies of the	priority documents have been	received in this National Stag	е
application from the International Bu	reau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	list of the certified copies no	t received.	
	•		
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 		Summary (PTO-413) (s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		Informal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 8, & 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver (US Patent No. 5389069) in view of Eggers et al (US Patent No. 5681282). The Weaver reference discloses a device for manipulating a molecule in vivo relative to a target tissue in figure 5 comprising an elongated member 148 comprising a generally cylindrical nonconductive core post and at least two discrete electrodes (152,154); the least two discrete electrodes being circumferential rings disposed about the core and in axially spaced relation along the elongated member, each electrode being in circuit communication with a respective portion of a source of electrical energy, the discrete electrodes being configured to establish a first electromagnetic field in vivo between selected electrodes sufficient to cause an electromigration of a molecule relative to a target tissue and a second electromagnetic field sufficient to cause a transient permeability of a cell membrane within the target tissue; and an insulating material (seen as the material between the two electrodes) interposed axially between the electrodes for achieving relative electromagnetic isolation of the electrodes, also see

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col. 2 lines 8-60 & col. 8 lines 5-21. Now even though Weaver does not explicitly disclose more than two electrodes or the electrodes to be independently in communication with a power source attention is directed to Eggers. The Eggers reference teaches an electrosurgical device that utilizes multiple electrodes that can all be independently controlled and connected to a power source, see col. 5 lines 11-22 & col. 5 line 66 – col. 6 line 15. Therefore, it would be obvious to one of ordinary skill in the art at the time of the invention to modify the device of Weaver with the teachings of Eggers in order to provide an apparatus that can be utilized over a larger area and can selectively apply energy to the patient while limiting unwanted heating.

With respect to claim 2, wherein the second field can be stronger than the first field when the first field is not activated by the independently controlled circuit..

With respect to claim 3-4, the tip seen as the distal end of part 148 in figure 5.

With respect to claim 8, wherein the device is fully capable of having the electrodes substantially simultaneously activatable due to it's size, shape, and ability to work in the environment.

Claims 1-4, 8, & 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tu et al (US Patent No. 5941845) and further in view of Eggers et al (US Patent No. 5681282). The Tu reference discloses a device for manipulating a molecule in vivo relative to a target tissue comprising an elongated member comprising a generally cylindrical nonconductive core post and at least two discrete electrodes; the least two discrete electrodes being circumferential rings disposed about the core and in axially

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spaced relation along the elongated member, each electrode being in circuit communication with a respective portion of a source of electrical energy, the discrete electrodes being configured to establish a first electromagnetic field in vivo between selected electrodes sufficient to cause an electromigration of a molecule relative to a target tissue and a second electromagnetic field sufficient to cause a transient permeability of a cell membrane within the target tissue. Now even though Tu does not explicitly disclose more than two electrodes or the electrodes to be independently in communication with a power source or insulating material between the electrodes attention is directed to Eggers. The Eggers reference teaches an electrosurgical device that utilizes multiple electrodes that can all be independently controlled and connected to a power source as well as insulation between the electrodes for achieving relative electromagnetic isolation of the electrodes, see col. 5 lines 11-22 & col. 5 line 66 – col. 6 line 15. Therefore, it would be obvious to one of ordinary skill in the art at the time of the invention to modify the device of Weaver with the teachings of Eggers in order to provide an apparatus that can be utilized over a larger area and can selectively apply energy to the patient while limiting unwanted heating as well as to isolate the electrodes in order to prevent interruptions in flow.

Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver (US Patent No. 5389069) in view of Eggers et al (US Patent No. 5681282) or Tu et al (US patent No. 5941845) in view of Eggers et al (US Patent No. 5681282) as applied to claim 1 and further in view of Hofmann et al (US Patent No. 6233482B1).

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Now even though Weaver or Tu does not explicitly disclose a plurality of members configurable to surround a periphery of a tissue or provide opposite-polarity voltages or active a plurality of electrodes in a predetermined pattern, attention is directed to Hofmann. The Hofmann reference teaches the use of a plurality of electroporation members to surround tissues, utilize opposite-polarity voltages, and activate electrodes in a predetermined pattern, see figures 2A-G, 6, & 7A-D, col. 3 line 62 – col. 8 line 36. Therefore, it would be obvious to one of ordinary skill in the art at the time of the invention to modify the device of Weaver or Tu with the teachings of Hofmann in order to provide electroporation therapy to a larger area as well as customizing the therapy to different tissues and operations.

Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver (US Patent No. 5389069) in view of Eggers et al (US Patent No. 5681282) or Tu et al (US patent No. 5941845) in view of Eggers et al (US Patent No. 5681282) as applied to claim 1 and further in view of Edwards et al (US Patent No. 5472441). Now even though Weaver or Tu et al does not explicitly disclose the member having a lumen and a portal, positioned along the member or adjacent a bottom tip or adjacent an electrode, for passing a substance therethrough to the target tissue attention is directed to Edwards. The Edwards et al reference teaches the use of a lumen through an electroporation member for fluid distribution for treatment of the tissues with an agent. Therefore, it would be obvious to one of ordinary skill in the art at the time of the

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invention to modify the device of Tu to utilize the teachings of Edwards in order to help facilitate the distribution of the fluid treatment agents.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Huh whose telephone number is 571-272-8208. The examiner can normally be reached on M-F: 9:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on 571-272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ψ.,.

BHH.

SUPERVISORY PATENT EXAMINER

Mexicon

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